

ABSTRACT

A subscriber interface device and method for transmitting a communication signal and a broadcasting signal to each subscriber in a communication-broadcasting convergence FTTH system. A subscriber interface, positioned in the ONU, modulates a
5 first predetermined number of broadcasting signals selected by a subscriber among broadcasting signals received from an OLT, combines a baseband communication signal received from the OLT with the modulated broadcasting signals, and optically transmits the combined communication-broadcasting signal. A subscriber interface receiver positioned in an ONT, splits the combined communication-broadcasting signal, filters
10 the split signals to respective frequency bands, modulates the filtered broadcasting signals, transmits the modulated broadcasting signals to a monitor of the subscriber, and transmits the filtered communication signal as a baseband signal to a communication terminal of the subscriber instead of a passband signal.